RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/595,200 _____

Source: _____ IFWO _____

Date Processed by STIC: _____ 03/30/2006 _____

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _____*10/595,200*_____ CRF Edit Date: _*03/30/2006*_

Edited by: _____*DA*_

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_~~/~~_ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____

_____ Other:

_____
_____
_____

Revised 09/09/2003

IFWO

RAW SEQUENCE LISTING   DATE: 03/30/2006
PATENT APPLICATION: US/10/595,200   TIME: 10:28:34

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\03302006\J595200.raw**

```
  3 <110> APPLICANT: ProGen Co., Ltd.
  5 <120> TITLE OF INVENTION: Method for mass production of human Follicle Stimulating
Hormone
  7 <130> FILE REFERENCE: 58049-00025
  9 <140> CURRENT APPLICATION NUMBER: US 10/595,200
 10 <141> CURRENT FILING DATE: 2006-03-22
 12 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/002474
 13 <151> PRIOR FILING DATE: 2004-09-24
 15 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0068641
 16 <151> PRIOR FILING DATE: 2003-10-02
 18 <160> NUMBER OF SEQ ID NOS: 15
 20 <170> SOFTWARE: KopatentIn 1.71
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 351
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 atggattact acagaaaata tgcagctatc tttctggtca cattgtcggt ctttctgcat      60
 30 gttctccatt ccgctcctga tgtgcaggat tgcccagaat gcacgctaca ggaaaaccca     120
 32 ttcttctccc agccgggtgc cccaatactt cagtgcatgg gctgctgctt ctctagagca     180
 34 tatcccactc cactaaggtc caagaagacg atgttggtcc aaaagaacgt cacctcagag     240
 36 tccacttgct gtgtagctaa atcatataac agggtcacag taatgggggg tttcaaagtg     300
 38 gagaaccaca cggcgtgcca ctgcagtact tgttattatc acaaatctta a              351
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 390
 43 <212> TYPE: DNA
 44 <213> ORGANISM: Homo sapiens
 46 <400> SEQUENCE: 2
 47 atgaagacac tccagttttt cttccttttc tgttgctgga aagcaatctg ctgcaatagc      60
 49 tgtgagctga ccaacatcac cattgcaata gagaagaag aatgtcgttt ctgcataagc     120
 51 atcaacacca cttggtgtgc tggctactgc tacaccaggg atctggtgta taggaccca     180
 53 gccaggccca aaatccagaa aacatgtacc ttcaaggaac tggtatatga aacagtgaga     240
 55 gtgcccggct gtgctcacca tgcagattcc ttgtatacat acccagtggc cacccaggtg     300
 57 cactgtggca agtgtgacag cgacagcact gattgtactg tgcgaggcct ggggcccagc     360
 59 tactgctcct ttggtgaaat gaaagaataa                                      390
 62 <210> SEQ ID NO: 3
 63 <211> LENGTH: 27
 64 <212> TYPE: DNA
 65 <213> ORGANISM: Artificial Sequence
 67 <220> FEATURE:
 68 <223> OTHER INFORMATION: sense primer for human FSH alpha subunit
 71 <400> SEQUENCE: 3
 72 agcgccatgg attactacag aaaatat                                          27
 75 <210> SEQ ID NO: 4
```

RAW SEQUENCE LISTING   DATE: 03/30/2006
PATENT APPLICATION: US/10/595,200   TIME: 10:28:34

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\03302006\J595200.raw

```
 76 <211> LENGTH: 37
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Artificial Sequence
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: antisense primer for human FSH alpha subunit
 84 <400> SEQUENCE: 4
 85 gggggatccg ggcccttaag atttgtgata attaaca                      37
 88 <210> SEQ ID NO: 5
 89 <211> LENGTH: 33
 90 <212> TYPE: DNA
 91 <213> ORGANISM: Artificial Sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: sense primer for human FSH beta subunit
 97 <400> SEQUENCE: 5
 98 gggggcggcc gcaggatgaa gacactccag ttt                          33
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 27
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: antisense primer for human FSH beta subunit
110 <400> SEQUENCE: 6
111 ggggatatct tattctttca tttcacc                                 27
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 592
116 <212> TYPE: DNA
117 <213> ORGANISM: Encephalomyocarditis virus
119 <400> SEQUENCE: 7
120 gatatcgaat tccccctctc cctccccccc ccctaacgtt actggccgaa gccgcttgga     60
122 ataaggccgg tgtgcgtttg tctatatgtt attttccacc atattgccgt cttttggcaa    120
124 tgtgagggcc cggaaacctg gccctgtctt cttgacgagc attcctaggg gtctttcccc    180
126 tctcgccaaa ggaatgcaag gtctgttgaa tgtcgtgaag gaagcagttc ctctggaagc    240
128 ttcttgaaga caaacaacgt ctgtagcgac cctttgcagg cagcggaacc ccccacctgg    300
130 cgacaggtgc ctctgcggcc aaaagccacg tgtataagat acacctgcaa aggcggcaca    360
132 accccagtgc cacgttgtga gttggatagt tgtggaaaga gtcaaatggc tctcctcaag    420
134 cgtattcaac aaggggctga aggatgccca gaaggtaccc cattgtatgg gatctgatct    480
136 ggggcctcgg tgcacatgct ttacatgtgt ttagtcgagg ttaaaaaaac gtctaggccc    540
138 cccgaaccac ggggacgtgg ttttcctttg aaaaacacga tgataaatgg cc           592
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 654
143 <212> TYPE: DNA
144 <213> ORGANISM: Cytomegalovirus
146 <220> FEATURE:
147 <221> NAME/KEY: promoter
148 <222> LOCATION: (1)..(654)
150 <400> SEQUENCE: 8
151 gatgtacggg ccagatatac gcgttgacat tgattattga ctagttatta atagtaatca     60
153 attacggggt cattagttca tagcccatat atggagttcc gcgttacata acttacggta    120
155 aatggcccgc ctggctgacc gcccaacgac ccccgcccat tgacgtcaat aatgacgtat    180
```

```
            RAW SEQUENCE LISTING                 DATE: 03/30/2006
            PATENT APPLICATION:  US/10/595,200   TIME: 10:28:34

            Input Set : A:\pto.da.txt
            Output Set: N:\CRF4\03302006\J595200.raw
```

```
157 gttcccatag taacgccaat agggactttc cattgacgtc aatgggtgga ctatttacgg       240
159 taaactgccc acttggcagt acatcaagtg tatcatatgc caagtacgcc ccctattgac       300
161 gtcaatgacg gtaaatggcc cgcctggcat tatgcccagt acatgacctt atgggacttt       360
163 cctacttggc agtacatcta cgtattagtc atcgctatta ccatggtgat gcggttttgg       420
165 cagtacatca atgggcgtgg atagcggttt gactcacggg gatttccaag tctccacccc       480
167 attgacgtca atgggagttt gttttggcac caaaatcaac gggactttcc aaaatgtcgt       540
169 aacaactccg ccccattgac gcaaatgggc ggtaggcgtg tacggtggga ggtctatata       600
171 agcagagctc tctggctaac tagagaaccc actgcttaac tgcttatcga aatt            654
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 441
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Adenovirus tripartite leader sequence
183 <400> SEQUENCE: 9
184 tcgatactct cttccgcatc gctgtctgcg agggccagct gttgggctcg cggttgagga        60
186 caaactcttc gcggtctttc cagtactctt ggatcggaaa cccgtcggcc tccgaacggt       120
188 actccgccac cgagggacct gagcgagtcc gcatcgaccg gatcggaaaa cctctcgact       180
190 gttggcgtca gtactccctc tcaaaagcgg gcatgacttc tgcgctaaga ttgtcagttt       240
192 ccaaaaacga ggaggatttg atattcacct ggcccgcggt gatgcctttg agggtggccg       300
194 cgtccatctg gtcagaaaag acaatctttt tgttgtcaag cttgaggtgt ggcaggcttg       360
196 agatctggcc atacacttga gtgacaatga catccacttt gcctttctct ccacaggtgt       420
198 ccactcccag gtccaactgc a                                                  441
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 19
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: sense primer for tripartite leader sequence
210 <400> SEQUENCE: 10
211 gatatcgata ctctcttcc                                                      19
214 <210> SEQ ID NO: 11
215 <211> LENGTH: 27
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: antisense primer for tripartite leader sequence
223 <400> SEQUENCE: 11
224 gcgtcgacct gcagttggac ctgggag                                            27
227 <210> SEQ ID NO: 12
228 <211> LENGTH: 564
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: dihydrofolate reductase
236 <400> SEQUENCE: 12
237 atggttcgac cattgaactg catcgtcgcc gtgtcccaaa atatggggat tggcaagaac        60
239 ggagacctac cctggcctcc gctcaggaac gagttcaagt acttccaaag aatgaccaca       120
241 acctcttcag tggaaggtaa acagaatctg gtgattatgg gtaggaaaac ctggttctcc       180
```

```
243 attcctgaga agaatcgacc tttaaaggac agaattaata tagttctcag tagagaactc    240
245 aaagaaccac cacgaggagc tcattttctt gccaaaagtt tggatgatgc cttaagactt    300
247 attgaacaac cggaattggc aagtaaagta gacatggttt ggatagtcgg aggcagttct    360
249 gtttaccagg aagccatgaa tcaaccaggc cacctcagac tctttgtgac aaggatcatg    420
251 caggaatttg aaagtgacac gttttttccca gaaattgatt tggggaaata taaacttctc    480
253 ccagaatacc caggcgtcct ctctgaggtc caggaggaaa aaggcatcaa gtataagttt    540
255 gaagtctacg agaagaaaga ctaa                                           564
258 <210> SEQ ID NO: 13
259 <211> LENGTH: 130
260 <212> TYPE: DNA
261 <213> ORGANISM: Simian virus 40
263 <220> FEATURE:
264 <221> NAME/KEY: polyA_signal
265 <222> LOCATION: (1)..(130)
267 <400> SEQUENCE: 13
268 aacttgttta ttgcagctta taatggttac aaataaagca atagcatcac aaatttcaca     60
270 aataaagcat ttttttcact gcattctagt tgtggtttgt ccaaactcat caatgtatct    120
272 tatcatgtct                                                          130
275 <210> SEQ ID NO: 14
276 <211> LENGTH: 232
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: bovine growth hormone
284 <220> FEATURE:
285 <221> NAME/KEY: polyA_signal
286 <222> LOCATION: (1)..(232)
288 <400> SEQUENCE: 14
289 ctagagctcg ctgatcagcc tcgactgtgc cttctagttg ccagccatct gttgtttgcc     60
291 cctcccccgt gccttccttg accctggaag gtgccactcc cactgtcctt tcctaataaa    120
293 atgaggaaat tgcatcgcat tgtctgagta ggtgtcattc tattctgggg ggtggggtgg    180
295 ggcaggacag caagggggag gattgggaag acaatagcag gcatgctggg ga           232
298 <210> SEQ ID NO: 15
299 <211> LENGTH: 10
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: BamH I linker
307 <400> SEQUENCE: 15
308 cgggatcccg                                                           10
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/595,200**

DATE: 03/30/2006
TIME: 10:28:35

Input Set : **A:\pto.da.txt**
Output Set: **N:\CRF4\03302006\J595200.raw**

Raw Sequence Listing before editing (for reference only)

IFWO

RAW SEQUENCE LISTING DATE: 03/28/2006
PATENT APPLICATION: **US/10/595,200** TIME: 10:06:07

Input Set : **A:\58049-00025.ST25.txt**
Output Set: **N:\CRF4\03282006\J595200.raw**

```
  3 <110> APPLICANT: ProGen Co., Ltd.
  5 <120> TITLE OF INVENTION: Method for mass production of human Follicle Stimulating
Hormone
  7 <130> FILE REFERENCE: 58049-00025
  9 <140> CURRENT APPLICATION NUMBER: US 10/595,200
 10 <141> CURRENT FILING DATE: 2006-03-22
 12 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/002474
 13 <151> PRIOR FILING DATE: 2004-09-24
 15 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0068641
 16 <151> PRIOR FILING DATE: 2003-10-02
 18 <160> NUMBER OF SEQ ID NOS: 15
 20 <170> SOFTWARE: KopatentIn 1.71
```

Does Not Comply
Corrected Diskette Needed
(pg-1)

ERRORED SEQUENCES

```
298 <210> SEQ ID NO: 15
299 <211> LENGTH: 10
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: BamH I linker
307 <400> SEQUENCE: 15
308 cgggatcccg                                                      10
```

E--> 309 ⊙1
E--> 312 ⊙12 → *deleted*

VERIFICATION SUMMARY   DATE: 03/28/2006
PATENT APPLICATION: US/10/595,200   TIME: 10:06:08

Input Set : **A:\58049-00025.ST25.txt**
Output Set: **N:\CRF4\03282006\J595200.raw**

L:309 M:254 E: No. of Bases conflict, this line has no nucleotides.
M:254 Repeated in SeqNo=15